Journal of Materials Processing Technology, 26 (1991) 377–378
Elsevier

Contents Volume 26

Vol. 26, No. 1

Adhesives as an aid to the assembly of aerospace components
M.C. O'Grady and D.J. Williams (Loughborough, U.K.) 1
Effect of tool nose radius on the stability of turning processes
M. Rahman (Singapore) and M.A. Matin (Dhaka, Bangladesh) 13
Similarity in the deformation of lead and steel in the hot-rolling process
J. Mazurkiewicz and P. Myszkowski (Katowice, Poland) 23
Workability and CAD/CAM
B. Dodd (Reading, U.K.) and P. Hartley (Birmingham, U.K.) 35
An elasto-plastic finite element and experimental study of the ironing process
Y.-M. Huang, Y.-H. Lu and J.-W. Chan (Taipei, Taiwan) 53

Letter to the Editor 81

Diary of Events 85

Vol. 26, No. 2

6th Conference of the Irish Manufacturing Committee on Advanced Manufacturing Technology

Preface 95
Manufacturing defect studies noting some of the early ideas of Robert Mallett (1810–1881), Irish engineer-scientist
W. Johnson (Cambridge, U.K.) 97
Plasma deposition of hard carbon films as wear protective coatings
P.W. Carey and D.C. Cameron (Dublin, Ireland) 117
The friction joining of ceramics to metals
A.A. Essa and A.S. Bahrani (Belfast, U.K.) 133
An analysis of closed-die extrusion/forging
L. Brayden and J. Monaghan (Dublin, Ireland) 141
Bulk forming of superplastic alloys
K. Tully and J. Monaghan (Dublin, Ireland) 159
Polymer coating of wire using a die-less drawing process
G.R. Symmons (Sheffield, U.K.), A.H. Menon (Nawabshah, Pakistan), M.S.J. Hashmi (Dublin, Ireland) and Zhang Ming (Chengdu, China) 173
Closed-die cold forging: an upper-bound analysis
J. Monaghan and M. Peard (Dublin, Ireland) 181
Polymer coating of superfine wire: a new technique to ensure quality
R.E. Lamb and M.S.J. Hashmi (Dublin, Ireland) 197
Computer aided analysis of a surface roughness model for turning
M.A. El Baradie (Dublin, Ireland) 207
Investigation of thermal spraying processes using simulation methods
R. Elsing, O. Knotek and U. Balting (Aachen, Germany) 217

Elsevier Science Publishers B.V.

An expert system to generate NC data from CAD product models
B.J. Davies, A. Joseph and M. Kalta (Manchester, U.K.) 227
Potential cost savings in a plastics injection moulding shop
D.P. Howe (Dundonald, Northern Ireland, U.K.), R. McIlhagger (Jordanstown, Northern Ireland, U.K.) and P. McDonagh (Dundonald, Northern Ireland, U.K.) 237
Automatic 3-D inspection of solder paste on surface mount printed circuit boards
J. Mahon (Dublin, Ireland) 245

Vol. 26, No. 3

A new device for upsetting tests of steels at high temperatures
E. Doremus, J. Oudin, J.P. Bricout and Y. Ravalard (Valenciennes, France) 257
UBET analysis of roll torque and profile formation during the profile ring-rolling of rings having rectangular protrusions
Y.H. Hahn and D.Y. Yang (Seoul, Korea) 267
The production of forming dies by hobbing superplastic materials
J.M. Monaghan and K. Tully (Dublin, Ireland) 281
A description of some special machining techniques and equipment developed for the vertical lathe
Deng Shou Kun (Shiyan, China) 297
Development of texture in low-carbon steels for cold heading
Sugondo, J.A. Szpunar and P. Gangli (Montreal, Canada) 305
Analysis of deformation in extrusion of composite rods
H. Tokuno and K. Ikeda (Sendai, Japan) 323
A study of bi-metal coins by the finite element method
M.J.M. Barata Marques and P.A.F. Martins (Lisbon, Portugal) 337
Prediction of the optimum dimensions of the crystalline grains for the deep-drawing of metals
Li Miaoquan (Xi'an, China) 349

Letters to the Editor 355
Book Reviews 359
Diary Supplement 369
Acknowledgement of Referees 375
Author Index Volume 26 376
Contents Volume 26 377